



SCHEMATIC REPRESENTATION OF THE PHAGEMID VECTOR pCES1

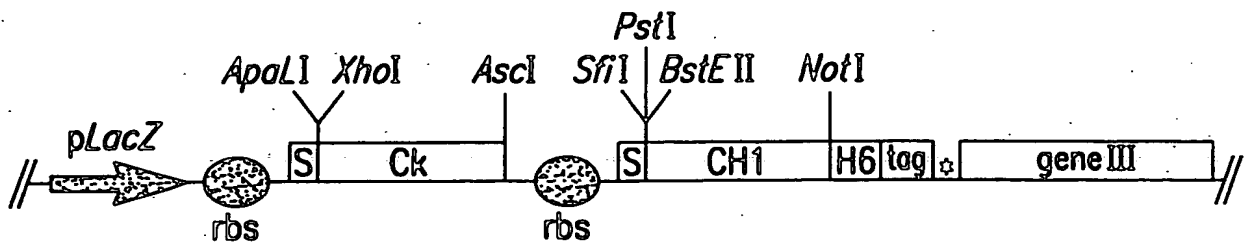


FIG. 1A



(SEQ ID NO: 7)

Human CK gene

Stops

Signal sequence

Sfili

+

(Seq ID No. 5)

C-Myc Tag

Amber Gene III

(SEQ ID NO: 8)

FIG. 1B

Oligonucleotide primers used for construction of the library

A. Primary amplifications

IgM heavy chain constant region

HuIgMFOR 5'-TGG AAG AGG CAC GTT CTT TTC TTT-3' (SEQ ID NO:9)

B. Secondary amplifications

κ light chain constant region

HuκkFOR 5'-ACA CTC TCC CCT GTT GAA GCT CTT-3' (SEQ ID NO:10)

κ light chain constant region

Huκk-FOR-ASC

λ light chain constant region

HuλC12-FOR 5'-TGA ACA TTC TGT AGG GGC CAC TG-3' (SEQ ID NO:11)

λ light chain constant region

HuλC12-FOR-ASC

HuλC17-FOR

5'-AGA GCA TTC TGC AGG GGC CAC TG-3' (SEQ ID NO:12)

HuλC17-FOR-ASC

VH back

HuVH1B/7A-BACK

5'-CAG RTG CAG CTG GTG CAR TCT GG-3' (SEQ ID NO:13)

HuVH1B/7A-BACK-SFI

HuVH1C-BACK

5'-SAG GTC CAG CTG GTR CAG TCT GG-3' (SEQ ID NO:14)

HuVH1C-BACK-SFI

HuVH2B-BACK

5'-CAG RTC ACC TTG AAG GAG TCT GG-3' (SEQ ID NO:15)

HuVH2B-BACK-SFI

HuVH3B-BACK

5'-SAG GTG CAG CTG GTG GAG TCT GG-3' (SEQ ID NO:16)

HuVH3B-BACK-SFI

HuVH3C-BACK

5'-GAG GTG CAG CTG GTG GAG WCY GG-3' (SEQ ID NO:17)

HuVH3C-BACK-SFI

HuVH4B-BACK

5'-CAG GTG CAG CTA CAG CAG TGG GG-3' (SEQ ID NO:18)

HuVH4B-BACK-SFI

HuVH4C-BACK

5'-CAG STG CAG CTG CAG GAG TCS GG-3' (SEQ ID NO:19)

HuVH4C-BACK-SFI

HuVH5B-BACK

5'-GAR GTG CAG CTG GTG CAG TCT GG-3' (SEQ ID NO:20)

HuVH5B-BACK-SFI

HuVH6A-BACK

5'-CAG GTA CAG CTG CAG CAG TCA GG-3' (SEQ ID NO:21)

HuVH6A-BACK-SFI

FIG. 2i



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Oligonucleotide primers used for construction of the library

VH forward

HuJH1/2-FOR

HuJH3-FOR

HuJH4/5-FOR

HuJH6-FOR

Vκ back

Vκ back

HuVk1B-BACK	5'-GAC ATC CAG WTG ACC CAG TCT CC-3' (SEQ ID NO:22)	HuVk1B-BACK-APA
HuVk2-BACK	5'-GAT GTT GTG ATG ACT CAG TCT CC-3' (SEQ ID NO:23)	HuVk2-BACK-APA
HuVk3B-BACK	5'-GAA ATT GTG WTG ACR CAG TCT CC-3' (SEQ ID NO:24)	HuVk3B-BACK-APA
HuVk4B-BACK	5'-GAT ATT GTG ATG ACC CAC ACT CC-3' (SEQ ID NO:25)	HuVk4B-BACK-APA
HuVk5-BACK	5'-GAA ACG ACA CTC ACG CAG TCT CC-3' (SEQ ID NO:26)	HuVk5-BACK-APA
HuVk6-BACK	5'-GAA ATT GTG CTG ACT CAG TCT CC-3' (SEQ ID NO:27)	HuVk6-BACK-APA

FIG.2ii



Oligonucleotide primers used for construction of the library

V λ back		V λ back
HuV λ 1A-BACK	5'-CAG TCT GTG CTG ACT CAG CCA CC-3' (SEQ ID NO:28)	HuV λ 1A-BACK-APA
HuV λ 1B-BACK	5'-CAG TCT GTG YTG ACG CAG CCG CC-3' (SEQ ID NO:29)	HuV λ 1B-BACK-APA
HuV λ 1C-BACK	5'-CAG TCT GTC GTG ACG CAG CCG CC-3' (SEQ ID NO:30)	HuV λ 1C-BACK-APA
HuV λ 2-BACK	5'-CAR TCT GCC CTG ACT CAG CCT-3' (SEQ ID NO:31)	HuV λ 2-BACK-APA
HuV λ 3A-BACK	5'-TCC TAT GWG CTG ACT CAG CCA CC-3' (SEQ ID NO:32)	HuV λ 3A-BACK-APA
HuV λ 3B-BACK	5'-TCT TCT GAG CTG ACT CAG GAC CC-3' (SEQ ID NO:33)	HuV λ 3B-BACK-APA
HuV λ 4-BACK	5'-CAC GTT ATA CTG ACT CAA CCG CC-3' (SEQ ID NO:34)	HuV λ 4-BACK-APA
HuV λ 5-BACK	5'-CAG GCT GTG CTG ACT CAG CCG TC-3' (SEQ ID NO:35)	HuV λ 5-BACK-APA
HuV λ 6-BACK	5'-AAT TTT ATG CTG ACT CAG CCC CA-3' (SEQ ID NO:36)	HuV λ 6-BACK-APA
HuV λ 7/8-BACK	5'-CAG RCT GTG GTG ACY CAG GAG CC-3' (SEQ ID NO:37)	HuV λ 7/8-BACK-APA
HuV λ 9-BACK	5'-CWG CCT GTG CTG ACT CAG CCM CC-3' (SEQ ID NO:38)	HuV λ 9-BACK-APA

FIG. 2iii



Oligonucleotide primers used for construction of the library

5'-ACC GCC TCC ACC GGG CGC GCC TTA TTA ACA CTC TCC CCT GTT GAA GCT CTT-3' (SEQ ID NO:39)

5'-ACC GCC TCC ACC GGG CGC GCC TTA TTA TGA ACA TTC TGT AGG GGC CAC TG-3' (SEQ ID NO:40)

5'-ACC GCC TCC ACC GGG CGC GCC TTA TTA AGA GCA TTC TGC AGG GGC CAC TG-3' (SEQ ID NO:41)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC CAG RTG CAG CTG GTG CAR TCT GG-3' (SEQ ID NO:42)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC CAG CTC CAG CTG GTR CAG TCT GG-3' (SEQ ID NO:43)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC CAG RTC ACC TTG AAG GAG TCT GG-3' (SEQ ID NO:44)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC CAG CTG GTG GAG TCT GG-3' (SEQ ID NO:45)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC CAG CTG GTG GAG WCY GG-3' (SEQ ID NO:46)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC CAG GTG CAG CTA CAG CAG TGG GG-3' (SEQ ID NO:47)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC CAG CTG CAG CTG TCS GG-3' (SEQ ID NO:48)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC GAR GTG CAG CTG GTG CAG TCT GG-3' (SEQ ID NO:49)

5'-GTC CTC GCA ACT GCG GCC CAG CCG GCC ATG GCC CAG GTA CAG CTG CAG TCA GG-3' (SEQ ID NO:50)



Oligonucleotide primers used for construction of the library

5'-TGA GGA GAC GGT GAC CAG GGT GCC-3' (SEQ ID NO:51)

5'-TGA AGA GAC GGT GAC CAT TGT CCC-3' (SEQ ID NO:52)

5'-TGA GGA GAC GGT GAC CAG GGT TCC-3' (SEQ ID NO:53)

5'-TGA GGA GAC GGT GAC CGT GGT CCC-3' (SEQ ID NO:54)

5'-ACC GCC TCC ACC AGT GCA CTT GAC ATC CAG WTG ACC CAG TCT CC-3' (SEQ ID NO:55)

5'-ACC GCC TCC ACC AGT GCA CTT GAT GTG ATG ACT CAG TCT CC-3' (SEQ ID NO:56)

5'-ACC GCC TCC ACC AGT GCA CTT GAA ATT GTG WTG ACR CAG TCT CC-3' (SEQ ID NO:57)

5'-ACC GCC TCC ACC AGT GCA CTT GAT ATT GTG ATG ACC CAC ACT CC-3' (SEQ ID NO:58)

5'-ACC GCC TCC ACC AGT GCA CTT GAA ACG ACA CTC ACG CAG TCT CC-3' (SEQ ID NO:59)

5'-ACC GCC TCC ACC AGT GCA CTT GAA ATT GTG CTG ACT CAG TCT CC-3' (SEQ ID NO:60)

FIG.2v



Oligonucleotide primers used for construction of the library

5'-ACC GCC TCC ACC AGT GCA CAG TCT GTG CTG ACT CAG CCA CC-3' (SEQ ID NO:61)
5'-ACC GCC TCC ACC AGT GCA CAG TCT GTG YTG ACG CAG CCG CC-3' (SEQ ID NO:62)
5'-ACC GCC TCC ACC AGT GCA CAG TCT GTC GTG ACG CAG CCG CC-3' (SEQ ID NO:63)
5'-ACC GCC TCC ACC AGT GCA CAR TCT GCC CTG ACT CAG CCT-3' (SEQ ID NO:64)
5'-ACC GCC TCC ACC AGT GCA CTT TCC TAT GWG CTG ACT CAG CCA CC-3' (SEQ ID NO:65)
5'-ACC GCC TCC ACC AGT GCA CTT TCT TCT GAG CTG ACT CAG GAC CC-3' (SEQ ID NO:66)
5'-ACC GCC TCC ACC AGT GCA CAC GTT ATA CTG ACT CAA CCG CC-3' (SEQ ID NO:67)
5'-ACC GCC TCC ACC AGT GCA CAG GCT GTG CTG ACT CAG CCG TC-3' (SEQ ID NO:68)
5'-ACC GCC TCC ACC AGT GCA CTT AAT TTT ATG CTG ACT CAG CCC CA-3' (SEQ ID NO:69)
5'-ACC GCC TCC ACC AGT GCA CAG RCT GTG GTG ACY CAG GAG CC-3' (SEQ ID NO:70)
5'-ACC GCC TCC ACC AGT GCA CWG CCT GTG CTG ACT CAG CCM CC-3' (SEQ ID NO:71)

FIG.2vi